

## Horticulture

**Michigan** placed third nationally in value of wholesale sales of floriculture products in 2000. Only California and Florida reported larger sales than Michigan. Reports from Michigan's 726 commercial growers (\$10,000 or more in gross sales) showed an estimated wholesale value of \$300.7 million for all surveyed floriculture crops, up 30 percent from last year. This estimate includes summarized sales data as reported by growers with \$100,000 or more in sales plus a calculated wholesale value of sales for operations with sales from \$10,000 to \$99,999. The leading crop category breakdowns for Michigan operations with more than \$100,000 in sales were:

**First, annual bedding/garden plants** with \$148 million in sales.

**Second, propagative materials** with \$49 million in sales.

**Third, herbaceous perennial plants** with \$43 million in sales.

**Fourth, potted flowering plants** with \$32 million in sales.

Michigan leads the nation in value of sales for 8 floriculture crops:

■**Herbaceous Perennial Plants (unfinished)** valued at \$40 million.

■**Potted Geraniums (seed)** with 17.7 million pots sold, valued at \$13.6 million.

■**Potted Hosta** with 3.2 million pots sold, valued at \$9.5 million.

■**Marigolds Flats** with 784,000 flats sold, valued at \$5.4

million.

■**New Guinea Impatiens Hanging Baskets** with 607,000 baskets sold, valued at \$3.9 million.

■**Geranium from Seed (flats)** with 219,000 flats sold, valued at \$1.8 million.

■**Begonia Hanging Baskets** with 261,000 baskets sold, valued at \$1.5 million.

■**New Guinea Impatiens Flats** with 125,000 flats sold, valued at \$1.0 million.

Other notable Michigan crops that ranked second in value of sales nationally were:

■**Geranium Hanging Baskets (cuttings)** with 485,000 baskets sold, valued at \$3.1 million.

■**Marigold** with 182,000 pots sold, valued at \$2.2 million.

■**Pansy/Viola Hanging Baskets** with 36,000 baskets sold, valued at \$2.0 million.

■**Impatiens Hanging Baskets** with baskets sold, valued at \$2.0 million

■**Petunia Hanging Baskets** with 251,000 baskets sold, valued at \$1.2 million.

Total covered area for all operations in the state increased 4 percent to 42.3 million square feet. This includes both rigid and film plastic greenhouses, glass greenhouses, shade, and temporary cover. Only California and Florida have more total cover.

**Floriculture crops: Number of growers by gross value of sales, 1996-2000**

| Year | \$10,000-\$19,999 | \$20,000-\$39,000 | \$40,000-\$49,000 | \$50,000-\$99,999 | \$100,000-\$499,999 | \$500,000 or more | Total growers |
|------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|---------------|
|      | Number            | Number            | Number            | Number            | Number              | Number            | Number        |
| 1996 | 36                | 62                | 30                | 116               | 191                 | 125               | 560           |
| 1997 | 76                | 105               | 52                | 127               | 255                 | 135               | 750           |
| 1998 | 77                | 111               | 45                | 139               | 263                 | 111               | 746           |
| 1999 | 78                | 82                | 49                | 190               | 222                 | 117               | 738           |
| 2000 | 65                | 86                | 92                | 163               | 240                 | 130               | 726           |

**Floriculture crops: Growing area by type of cover, 1996-2000**

| Year | Glass greenhouses | Fiberglass and other rigid greenhouses | Plastic film greenhouses | Total greenhouse cover | Shade and temporary cover | Total covered area | Open ground |
|------|-------------------|--|--------------------------|------------------------|---------------------------|--------------------|-------------|
|      | 1,000 square feet | 1,000 square feet                      | 1,000 square feet        | 1,000 square feet      | 1,000 square feet         | 1,000 square feet  | Acres       |
| 1996 | 4,319             | 3,444                                  | 25,564                   | 32,324                 | 800                       | 33,124             | 1,797       |
| 1997 | 4,420             | 3,467                                  | 29,791                   | 37,678                 | 665                       | 38,343             | 2,414       |
| 1998 | 4,515             | 3,643                                  | 33,174                   | 41,332                 | 836                       | 42,168             | 2,298       |
| 1999 | 4,487             | 3,736                                  | 31,585                   | 39,808                 | 949                       | 40,757             | 2,205       |
| 2000 | 4,454             | 4,079                                  | 32,621                   | 41,154                 | 1,106                     | 42,260             | 3,579       |

### Floriculture crops: Wholesale value of sales by category, 1996-2000

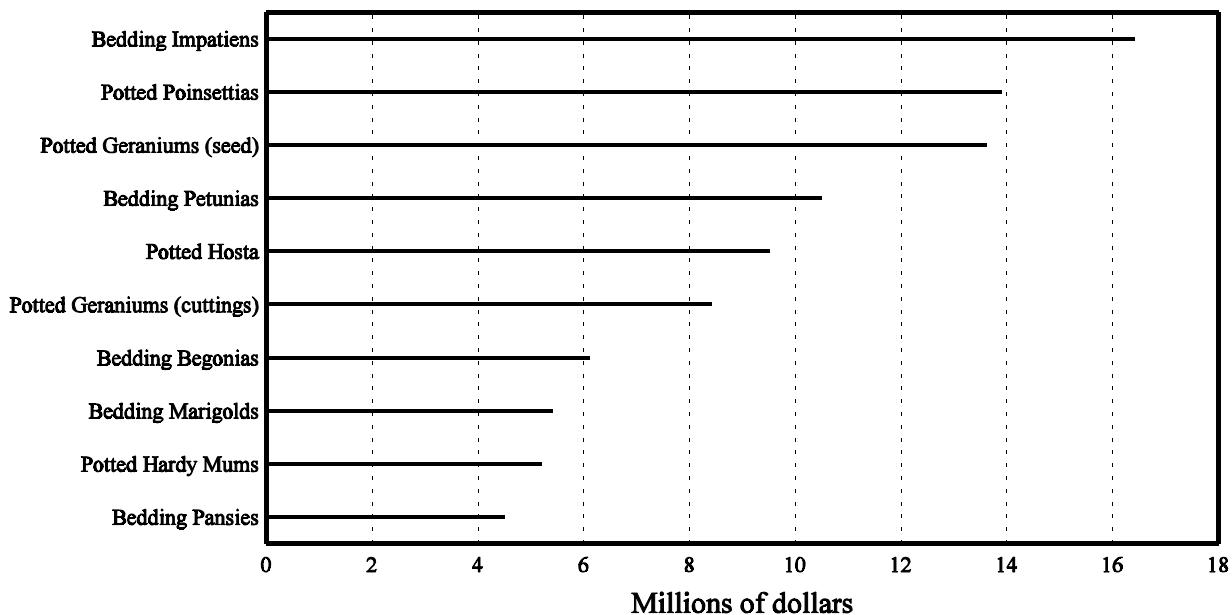
| Year | Total cut flowers | Total potted flowering plants | Total foliage for indoor or patio use | Total bedding/garden plants | Total wholesale value of reported crops <sup>1</sup> | Expanded wholesale value of reported crops <sup>2</sup> |
|------|-------------------|-------------------------------|---------------------------------------|-----------------------------|--|---|
|      | 1,000 dollars     | 1,000 dollars                 | 1,000 dollars                         | 1,000 dollars               | 1,000 dollars  | 1,000 dollars   |
| 1996 | 10,388            | 27,442                        | 3,712                                 | 131,250                     | 172,803  | 185,253   |
| 1997 | 11,514            | 26,477                        | 3,313                                 | 153,877                     | 195,229  | 211,384   |
| 1998 | 8,551             | 27,621                        | 3,056                                 | 172,615                     | 211,509  | 228,444   |
| 1999 | 4,995             | 27,828                        | 2,996                                 | 175,988                     | 211,807  | 231,939   |
| 2000 | 7,610             | 32,310                        | 3,493                                 | 190,526                     | 282,929  | 300,652   |

<sup>1</sup> Total data for 1999 and 2000 are not comparable; total sales of propagative material were added in 2000.

<sup>2</sup> Wholesale value of sales as reported by growers with \$100,000 or more in sales of floriculture crops plus a calculated wholesale value of sales for growers with sales below \$100,000. The value of sales for growers below the \$100,000 level was estimated by multiplying the number of growers in each size group by the midpoint of each dollar range.

### Selected Floriculture Crops, 2000

Value of Sales



**Bedding plants: Producers, quantity sold, price, and value, 1996-2000**

| Item                       | Producers | Quantity sold | Percent of sales at wholesale | Wholesale price | Value of sales at wholesale |
|----------------------------|-----------|---------------|-------------------------------|-----------------|-----------------------------|
|                            | Number    | 1,000 flats   | Percent                       | Dollars         | 1,000 dollars               |
| Begonias                   |           |               |                               |                 |                             |
| 2000                       | 199       | 847           | 83                            | 7.15            | 6,056                       |
| Geraniums                  |           |               |                               |                 |                             |
| 1996                       | 93        | 325           | 81                            | 10.07           | 3,273                       |
| 1997                       | 117       | 394           | 85                            | 9.26            | 3,648                       |
| 1998                       | 97        | 783           | 94                            | 7.02            | 5,497                       |
| 1999                       | 99        | 757           | 88                            | 8.28            | 6,268                       |
| 2000                       |           |               |                               |                 |                             |
| Geraniums from cuttings    |           |               |                               |                 |                             |
| 2000                       | 43        | 292           | 78                            | 6.21            | 1,813                       |
| Geraniums from seed        |           |               |                               |                 |                             |
| 2000                       | 50        | 219           | 93                            | 8.11            | 1,776                       |
| Impatiens                  |           |               |                               |                 |                             |
| 1996                       | 219       | 2,376         | 86                            | 6.26            | 14,874                      |
| 1997                       | 270       | 2,565         | 87                            | 6.37            | 16,339                      |
| 1998                       | 269       | 3,314         | 81                            | 5.88            | 19,486                      |
| 1999                       | 249       | 2,912         | 82                            | 6.47            | 18,841                      |
| 2000                       | 251       | 2,403         | 83                            | 6.81            | 16,364                      |
| Marigolds                  |           |               |                               |                 |                             |
| 2000                       | 204       | 784           | 89                            | 6.88            | 5,394                       |
| New Guinea Impatiens       |           |               |                               |                 |                             |
| 1996                       | 45        | 99            | 93                            | 9.99            | 989                         |
| 1997                       | 48        | 65            | 53                            | 12.27           | 798                         |
| 1998                       | 36        | 86            | 85                            | 8.25            | 710                         |
| 1999                       | 58        | 151           | 84                            | 9.21            | 1,391                       |
| 2000                       | 46        | 125           | 91                            | 8.21            | 1,026                       |
| Pansies/Violas             |           |               |                               |                 |                             |
| 2000                       | 195       | 679           | 90                            | 6.67            | 4,529                       |
| Petunias                   |           |               |                               |                 |                             |
| 1996                       | 223       | 1,383         | 84                            | 6.36            | 8,796                       |
| 1997                       | 269       | 1,522         | 87                            | 6.84            | 10,410                      |
| 1998                       | 272       | 1,787         | 79                            | 5.96            | 10,651                      |
| 1999                       | 250       | 1,651         | 85                            | 6.35            | 10,484                      |
| 2000                       |           |               |                               |                 |                             |
| Other flowering and foliar |           |               |                               |                 |                             |
| 1996                       | 241       | 5,824         | 86                            | 6.87            | 40,011                      |
| 1997                       | 296       | 6,561         | 87                            | 6.69            | 43,893                      |
| 1998                       | 291       | 7,152         | 84                            | 5.83            | 41,696                      |
| 1999                       | 259       | 7,683         | 88                            | 6.36            | 48,864                      |
| 2000                       | 258       | 4,454         | 85                            | 6.87            | 30,599                      |
| Vegetables <sup>1</sup>    |           |               |                               |                 |                             |
| 1996                       | 216       | 763           | 82                            | 6.08            | 4,639                       |
| 1997                       | 254       | 1,026         | 87                            | 6.15            | 6,310                       |
| 1998                       | 189       | 1,008         | 72                            | 6.69            | 6,744                       |
| 1999                       | 210       | 827           | 85                            | 6.69            | 5,533                       |
| 2000                       | 218       | 720           | 83                            | 6.99            | 5,033                       |

<sup>1</sup> Does not include vegetable transplants grown for commercial use.

### Hanging baskets: Producers, quantity sold, price, and value, 1996-2000

| Item                    | Producers | Quantity sold | Percent of sales at wholesale | Wholesale price | Value of sales at wholesale |
|-------------------------|-----------|---------------|-------------------------------|-----------------|-----------------------------|
|                         | Number    | 1,000 baskets | Percent                       | Dollars         | 1,000 dollars               |
| Begonias                |           |               |                               |                 |                             |
| 2000                    | 148       | 261           | 83                            | 5.61            | 1,464                       |
| Geraniums               |           |               |                               |                 |                             |
| 1996                    | 228       | 458           | 78                            | 6.19            | 2,835                       |
| 1997                    | 269       | 528           | 80                            | 6.02            | 3,179                       |
| 1998                    | 230       | 497           | 71                            | 6.46            | 3,211                       |
| 1999                    | 240       | 685           | 67                            | 6.41            | 4,391                       |
| 2000                    |           |               |                               |                 |                             |
| Geraniums from cuttings |           |               |                               |                 |                             |
| 2000                    | 211       | 485           | 73                            | 6.39            | 3,099                       |
| Geraniums from seed     |           |               |                               |                 |                             |
| 2000                    | 23        | 58            | 70                            | 5.85            | 339                         |
| Impatiens               |           |               |                               |                 |                             |
| 1996                    | 204       | 345           | 82                            | 5.31            | 1,832                       |
| 1997                    | 246       | 498           | 85                            | 4.62            | 2,301                       |
| 1998                    | 210       | 406           | 76                            | 4.9             | 1,989                       |
| 1999                    | 218       | 438           | 79                            | 4.94            | 2,164                       |
| 2000                    | 195       | 411           | 85                            | 4.95            | 2,034                       |
| Marigolds               |           |               |                               |                 |                             |
| 2000                    | 5         | 2             | 94                            | 5.89            | 12                          |
| New Guinea Impatiens    |           |               |                               |                 |                             |
| 1996                    | 208       | 442           | 84                            | 6.15            | 2,718                       |
| 1997                    | 250       | 566           | 86                            | 6.29            | 3,560                       |
| 1998                    | 233       | 574           | 80                            | 6.28            | 3,605                       |
| 1999                    | 229       | 727           | 73                            | 6.41            | 4,660                       |
| 2000                    | 226       | 607           | 82                            | 6.45            | 3,915                       |
| Pansies/Violas          |           |               |                               |                 |                             |
| 2000                    | 30        | 36            | 96                            | 5.65            | 203                         |
| Petunias                |           |               |                               |                 |                             |
| 1996                    | 166       | 110           | 79                            | 5.6             | 616                         |
| 1997                    | 202       | 185           | 82                            | 5.07            | 938                         |
| 1998                    | 183       | 164           | 76                            | 5.12            | 840                         |
| 1999                    | 210       | 252           | 80                            | 5.27            | 1,328                       |
| 2000                    | 178       | 251           | 85                            | 4.96            | 1,245                       |
| Other flowering         |           |               |                               |                 |                             |
| 1996                    | 253       | 1,348         | 84                            | 5.64            | 7,603                       |
| 1997                    | 297       | 1,675         | 85                            | 5.61            | 9,397                       |
| 1998                    | 244       | 1,465         | 71                            | 6.12            | 8,966                       |
| 1999                    | 262       | 1,935         | 85                            | 5.92            | 11,455                      |
| 2000                    | 189       | 1,346         | 82                            | 5.95            | 8,009                       |
| Foliage                 |           |               |                               |                 |                             |
| 1996                    | 56        | 435           | 95                            | 3.77            | 1,640                       |
| 1997                    | 68        | 408           | 95                            | 4.18            | 1,705                       |
| 1998                    | 47        | 253           | 90                            | 4.57            | 1,156                       |
| 1999                    | 55        | 315           | 93                            | 5.06            | 1,594                       |
| 2000                    | 64        | 299           | 93                            | 5.54            | 1,656                       |

### Herbaceous perennials: Producers, quantity sold, price, and value, 2000

| Item  | Producers | Quantity sold      |               |                     |            | Percent of sales at wholesale | Wholesale price    |               |                     | Value of All sales at wholesale |
|-------|-----------|--------------------|---------------|---------------------|------------|-------------------------------|--------------------|---------------|---------------------|---------------------------------|
|       |           | Less than 1 gallon | 1 to 2 gallon | 2 gallon and larger | Total      |                               | Less than 1 gallon | 1 to 2 gallon | 2 gallon and larger |                                 |
|       | Number    | 1,000 pots         | 1,000 pots    | 1,000 pots          | 1,000 pots | percent                       | Dollars            | Dollars       | Dollars             | 1,000 dollars                   |
| Hosta |           |                    |               |                     |            |                               |                    |               |                     |                                 |
| 2000  | 106       | 996                | 2,120         | 40                  | 3,156      | 95                            | 2.75               | 3.03          | 7.21                | 9,451                           |
| Other |           |                    |               |                     |            |                               |                    |               |                     |                                 |
| 2000  | 131       | 15,797             | 3,397         | 251                 | 19,356     | 94                            | 0.92               | 3.66          | 6.05                | 27,946                          |

**Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 1996-2000**

| Item                         | Producers | Quantity sold         |                       |            | Percent of sales at wholesale | Wholesale price       |                       | Value of sales at wholesale |
|------------------------------|-----------|-----------------------|-----------------------|------------|-------------------------------|-----------------------|-----------------------|-----------------------------|
|                              |           | Less than 5 inch pots | 5 inch pots or larger | Total      |                               | Less than 5 inch pots | 5 inch pots or larger |                             |
| Azaleas                      | Number    | 1,000 pots            | 1,000 pots            | 1,000 pots | Percent                       | Dollars               | Dollars               | 1,000 dollars               |
| 1996                         | 47        | 53                    | 167                   | 220        | 81                            | 2.01                  | 6.74                  | 1,232                       |
| 1997                         | 49        | 41                    | 179                   | 220        | 87                            | 1.86                  | 6.65                  | 1,267                       |
| 1998                         | 39        | 19                    | 164                   | 183        | 85                            | 3.14                  | 6.81                  | 1,177                       |
| 1999                         | 34        | 16                    | 149                   | 165        | 84                            | 3.27                  | 7.12                  | 1,113                       |
| 2000                         | 36        | 31                    | 116                   | 147        | 83                            | 3.16                  | 7.20                  | 933                         |
| Begonias                     |           |                       |                       |            |                               |                       |                       |                             |
| 2000                         | 65        | 442                   | 31                    | 473        | 66                            | 0.89                  | 1.92                  | 453                         |
| Chrysanthemums, florist      |           |                       |                       |            |                               |                       |                       |                             |
| 1996                         | 46        | 175                   | 569                   | 744        | 96                            | 1.28                  | 4.21                  | 2,619                       |
| 1997                         | 46        | 125                   | 580                   | 705        | 95                            | 1.57                  | 3.98                  | 2,505                       |
| 1998                         | 41        | 100                   | 458                   | 558        | 95                            | 1.49                  | 3.91                  | 1,940                       |
| 1999                         | 41        | 153                   | 434                   | 587        | 93                            | 1.42                  | 3.88                  | 1,901                       |
| 2000                         | 38        | 127                   | 320                   | 447        | 87                            | 1.69                  | 3.87                  | 1,453                       |
| Chrysanthemums, hardy garden |           |                       |                       |            |                               |                       |                       |                             |
| 1996                         | 119       | 603                   | 1,493                 | 2,096      | 93                            | 0.80                  | 2.02                  | 3,498                       |
| 1997                         | 149       | 574                   | 2,221                 | 2,765      | 90                            | 0.80                  | 1.96                  | 4,812                       |
| 1998                         | 139       | 637                   | 2,294                 | 2,931      | 86                            | 0.91                  | 1.74                  | 4,571                       |
| 1999                         | 131       | 828                   | 2,692                 | 3,520      | 93                            | 0.99                  | 2.18                  | 6,688                       |
| 2000                         | 131       | 631                   | 2,487                 | 3,118      | 90                            | 1.11                  | 1.79                  | 5,152                       |
| Geraniums from cuttings      |           |                       |                       |            |                               |                       |                       |                             |
| 1996                         | 191       | 3,144                 | 547                   | 3,691      | 65                            | 1.38                  | 2.69                  | 5,810                       |
| 1997                         | 218       | 3,376                 | 818                   | 4,194      | 71                            | 1.53                  | 2.69                  | 7,366                       |
| 1998                         | 228       | 6,355                 | 1,173                 | 7,528      | 78                            | 1.33                  | 2.55                  | 11,443                      |
| 1999                         | 203       | 5,709                 | 1,434                 | 7,143      | 81                            | 1.32                  | 2.41                  | 10,992                      |
| 2000                         | 222       | 3,298                 | 1,369                 | 4,667      | 67                            | 1.54                  | 2.43                  | 8,406                       |
| Geraniums from seed          |           |                       |                       |            |                               |                       |                       |                             |
| 1996                         | 112       | 17,552                | 201                   | 17,753     | 98                            | 0.76                  | 2.29                  | 13,800                      |
| 1997                         | 127       | 19,078                | 693                   | 19,771     | 98                            | 0.75                  | 2.30                  | 15,902                      |
| 1998                         | 110       | 14,360                | 13                    | 14,373     | 95                            | 0.74                  | 2.86                  | 10,664                      |
| 1999                         | 104       | 14,469                | 108                   | 14,577     | 97                            | 0.72                  | 2.99                  | 10,741                      |
| 2000                         | 112       | 17,662                | 54                    | 17,716     | 95                            | 0.76                  | 3.88                  | 13,633                      |
| Marigolds                    |           |                       |                       |            |                               |                       |                       |                             |
| 2000                         | 15        |                       |                       | 182        | 94                            |                       | 1.22                  | 222                         |
| New Guinea Impatiens         |           |                       |                       |            |                               |                       |                       |                             |
| 1996                         | 137       | 1,087                 | 80                    | 1,167      | 84                            | 0.93                  | 3.76                  | 1,312                       |
| 1997                         | 174       | 1,340                 | 229                   | 1,569      | 84                            | 1.18                  | 3.38                  | 2,355                       |
| 1998                         | 193       | 1,469                 | 234                   | 1,703      | 79                            | 1.14                  | 3.49                  | 2,491                       |
| 1999                         | 174       | 1,832                 | 270                   | 2,102      | 86                            | 1.12                  | 2.92                  | 2,840                       |
| 2000                         | 190       | 2,848                 | 287                   | 3,135      | 89                            | 1.10                  | 3.93                  | 4,261                       |
| Pansies/Violas               |           |                       |                       |            |                               |                       |                       |                             |
| 2000                         | 34        | 329                   | 58                    | 387        | 80                            | 0.67                  | 4.61                  | 488                         |

See footnote(s) at end of table.

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**Potted flowering and annual bedding plants: Producers, quantity sold, price, and value, 1996-2000 (continued)**

| Item   | Producers | Quantity sold         |                       |            | Percent of sales at wholesale | Wholesale price       |                       | Value of sales at wholesale |
|--|-----------|-----------------------|-----------------------|------------|-------------------------------|-----------------------|-----------------------|-----------------------------|
|  |           | Less than 5 inch pots | 5 inch pots or larger | Total      |                               | Less than 5 inch pots | 5 inch pots or larger |                             |
|  | Number    | 1,000 pots            | 1,000 pots            | 1,000 pots | Percent                       | Dollars               | Dollars               | 1,000 dollars               |
| Petunias                                       |           |                       |                       |            |                               |                       |                       |                             |
| 1996   | 29        | 150                   | 23                    | 173        | 92                            | 0.80                  | 1.76                  | 160                         |
| 1997   | 45        | 143                   | 87                    | 230        | 86                            | 0.80                  | 1.86                  | 276                         |
| 1998   | 45        | 119                   | 56                    | 175        | 75                            | 0.76                  | 2.56                  | 234                         |
| 1999   | 61        | 179                   | 190                   | 369        | 92                            | 0.97                  | 2.10                  | 573                         |
| 2000   | 64        | 390                   | 336                   | 726        | 63                            | 1.15                  | 1.92                  | 1,094                       |
| Poinsettias                                    |           |                       |                       |            |                               |                       |                       |                             |
| 1996   | 119       | 996                   | 2,960                 | 3,956      | 90                            | 1.69                  | 3.52                  | 12,102                      |
| 1997   | 118       | 1,099                 | 2,711                 | 3,810      | 91                            | 1.61                  | 3.80                  | 12,071                      |
| 1998   | 100       | 1,111                 | 2,584                 | 3,695      | 83                            | 2.01                  | 3.96                  | 12,466                      |
| 1999   | 94        | 1,029                 | 2,894                 | 3,923      | 90                            | 1.70                  | 3.98                  | 13,267                      |
| 2000   | 97        | 1,375                 | 3,138                 | 4,513      | 87                            | 1.23                  | 3.88                  | 13,867                      |
| Roses, florist                                 |           |                       |                       |            |                               |                       |                       |                             |
| 2000   | 14        | 67                    | 37                    | 104        | 90                            | 2.25                  | 4.24                  | 308                         |
| Flowering bulbs                                |           |                       |                       |            |                               |                       |                       |                             |
| 2000   | 43        | 735                   | 999                   | 1,734      | 97                            | 1.59                  | 3.31                  | 4,475                       |
| Other flowering plants                         |           |                       |                       |            |                               |                       |                       |                             |
| 1996   | 81        | 1,090                 | 1,063                 | 2,153      | 93                            | 1.33                  | 3.42                  | 5,085                       |
| 1997   | 83        | 1,271                 | 880                   | 2,151      | 93                            | 1.10                  | 3.50                  | 4,478                       |
| 1998   | 91        | 1,171                 | 1,013                 | 2,184      | 94                            | 1.41                  | 3.67                  | 5,369                       |
| 1999   | 61        | 1,023                 | 1,377                 | 2,400      | 92                            | 1.51                  | 2.89                  | 5,524                       |
| 2000   | 66        | 982                   | 722                   | 1,704      | 88                            | 1.64                  | 4.43                  | 4,809                       |
| Other flowering and foliar type bedding plants |           |                       |                       |            |                               |                       |                       |                             |
| 1996   | 153       | 11,904                | 1,994                 | 13,898     | 95                            | 1.04                  | 2.68                  | 17,724                      |
| 1997   | 196       | 12,632                | 3,689                 | 16,321     | 87                            | 0.91                  | 2.61                  | 21,123                      |
| 1998   | 215       | 8,427                 | 8,740                 | 17,167     | 83                            | 1.07                  | 3.38                  | 38,558                      |
| 1999   | 198       | 10,519                | 5,595                 | 16,114     | 82                            | 1.08                  | 2.95                  | 27,866                      |
| 2000   | 131       | 9,571                 | 1,848                 | 11,419     | 80                            | 1.01                  | 2.87                  | 14,970                      |
| Vegetable type <sup>1</sup>                    |           |                       |                       |            |                               |                       |                       |                             |
| 1996   | 82        | 250                   | 136                   | 386        | 72                            | 0.69                  | 2.07                  | 454                         |
| 1997   | 105       | 642                   | 282                   | 924        | 82                            | 0.84                  | 2.01                  | 1,106                       |
| 1998   | 66        | 470                   | 153                   | 623        | 64                            | 0.77                  | 1.28                  | 558                         |
| 1999   | 77        | 651                   | 230                   | 881        | 81                            | 0.61                  | 1.43                  | 726                         |
| 2000   | 73        | 716                   | 135                   | 851        | 86                            | 0.81                  | 1.79                  | 822                         |

<sup>1</sup> Does not include vegetable transplants grown for commercial use.

**Nurseries: Number of operations and acres, by county and Michigan Department of Agriculture region<sup>1</sup>**

| County and MDA region       | Number of operations |               | Acres            |              | County and MDA region       | Number of operations |               | Acres            |               |
|-----------------------------|----------------------|---------------|------------------|--------------|-----------------------------|----------------------|---------------|------------------|---------------|
|                             | 1997                 | 2000          | 1997             | 2000         |                             | 1997                 | 2000          | 1997             | 2000          |
|                             | <i>Number</i>        | <i>Number</i> | <i>Acres</i>     | <i>Acres</i> |                             | <i>Number</i>        | <i>Number</i> | <i>Acres</i>     | <i>Acres</i>  |
| Menominee                   | 3                    | 3             | 65               | 20           | Allegan                     | 37                   | 50            | 1,700            | 2,440         |
| Other counties <sup>2</sup> | 21                   | 14            | 440              | 210          | Barry                       | 7                    | 5             | 25               | 30            |
| <b>Region 1</b>             | <b>24</b>            | <b>17</b>     | <b>505</b>       | <b>230</b>   | Berrien                     | 61                   | 59            | 960              | 860           |
| Alcona                      | 3                    | 4             | 80               | 80           | Branch                      | 8                    | 3             | 40               | 5             |
| Antrim                      | 13                   | 15            | 75               | 90           | Calhoun                     | 19                   | 21            | 140              | 170           |
| Benzie                      | 4                    | 3             | 20               | 10           | Cass                        | 16                   | 16            | 90               | 75            |
| Charlevoix                  | ( <sup>3</sup> )     | 4             | ( <sup>3</sup> ) | 20           | Kalamazoo                   | 36                   | 28            | 450              | 200           |
| Cheboygan                   | ( <sup>3</sup> )     | 6             | ( <sup>3</sup> ) | 25           | St Joseph                   | 18                   | 11            | 135              | 60            |
| Emmet                       | 6                    | 6             | 120              | 170          | Van Buren                   | 32                   | 33            | 550              | 610           |
| Grand Traverse              | 20                   | 12            | 30               | 20           | <b>Region 5</b>             | 234                  | 226           | 4,090            | 4,450         |
| Kalkaska                    | 4                    | 7             | 60               | 170          | Clinton                     | 27                   | 25            | 250              | 245           |
| Leelanau                    | 12                   | 9             | 25               | 45           | Eaton                       | 29                   | 22            | 380              | 225           |
| Manistee                    | 8                    | 11            | 120              | 100          | Gratiot                     | ( <sup>3</sup> )     | 6             | ( <sup>3</sup> ) | 25            |
| Missaukee                   | 5                    | 5             | 25               | 105          | Hillsdale                   | ( <sup>3</sup> )     | 8             | ( <sup>3</sup> ) | 15            |
| Wexford                     | ( <sup>3</sup> )     | 6             | ( <sup>3</sup> ) | 20           | Ingham                      | 33                   | 25            | 420              | 415           |
| Other counties <sup>2</sup> | 24                   | 8             | 95               | 35           | Jackson                     | 22                   | 17            | 270              | 260           |
| <b>Region 2</b>             | <b>99</b>            | <b>96</b>     | <b>650</b>       | <b>890</b>   | Lenawee                     | 21                   | 14            | 160              | 130           |
| Ionia                       | 14                   | 9             | 90               | 95           | Livingston                  | 51                   | 43            | 560              | 640           |
| Kent                        | 55                   | 41            | 650              | 360          | Shiawassee                  | 14                   | 14            | 280              | 95            |
| Lake                        | ( <sup>3</sup> )     | 3             | ( <sup>3</sup> ) | 135          | Washtenaw                   | 49                   | 49            | 330              | 400           |
| Mason                       | 12                   | 12            | 250              | 310          | Other counties <sup>2</sup> | 11                   | 30            |                  |               |
| Mecosta                     | ( <sup>3</sup> )     | 4             | ( <sup>3</sup> ) | 45           | <b>Region 6</b>             | 257                  | 223           | 2,680            | 2,450         |
| Montcalm                    | 11                   | 16            | 70               | 465          | Macomb                      | 47                   | 28            | 530              | 435           |
| Muskegon                    | 9                    | 8             | 60               | 135          | Monroe                      | 38                   | 33            | 540              | 625           |
| Newaygo                     | 12                   | 11            | 100              | 130          | Oakland                     | 86                   | 54            | 510              | 300           |
| Oceana                      | 6                    | 9             | 40               | 95           | St Clair                    | 29                   | 21            | 450              | 325           |
| Osceola                     | ( <sup>3</sup> )     | 6             | ( <sup>3</sup> ) | 70           | Wayne                       | 34                   | 26            | 240              | 155           |
| Ottawa                      | 88                   | 81            | 5,950            | 4,800        | <b>Region 7</b>             | 234                  | 162           | 2,270            | 1,840         |
| Other counties <sup>2</sup> | 11                   | 40            |                  |              |                             |                      |               |                  |               |
| <b>Region 3</b>             | <b>218</b>           | <b>200</b>    | <b>7,250</b>     | <b>6,640</b> | <b>State total</b>          | <b>1,230</b>         | <b>1,085</b>  | <b>18,750</b>    | <b>18,300</b> |
| Arenac                      | ( <sup>3</sup> )     | 4             | ( <sup>3</sup> ) | 25           |                             |                      |               |                  |               |
| Bay                         | 8                    | 8             | 110              | 135          |                             |                      |               |                  |               |
| Genesee                     | 35                   | 41            | 180              | 330          |                             |                      |               |                  |               |
| Huron                       | ( <sup>3</sup> )     | 6             | ( <sup>3</sup> ) | 25           |                             |                      |               |                  |               |
| Iosco                       | ( <sup>3</sup> )     | 3             | ( <sup>3</sup> ) | 10           |                             |                      |               |                  |               |
| Isabella                    | 6                    | 10            | 45               | 195          |                             |                      |               |                  |               |
| Lapeer                      | 38                   | 31            | 420              | 385          |                             |                      |               |                  |               |
| Midland                     | 9                    | 6             | 15               | 15           |                             |                      |               |                  |               |
| Ogemaw                      | ( <sup>3</sup> )     | 3             | ( <sup>3</sup> ) | 35           |                             |                      |               |                  |               |
| Saginaw                     | 31                   | 26            | 250              | 270          |                             |                      |               |                  |               |
| Sanilac                     | 11                   | 12            | 230              | 300          |                             |                      |               |                  |               |
| Tuscola                     | 10                   | 6             | 30               | 30           |                             |                      |               |                  |               |
| Other counties <sup>2</sup> | 16                   | 5             | 25               | 45           |                             |                      |               |                  |               |
| <b>Region 4</b>             | <b>164</b>           | <b>161</b>    | <b>1,305</b>     | <b>1,800</b> |                             |                      |               |                  |               |

<sup>1</sup> Source: 1999-2000 Rotational Nursery & Christmas Tree Survey.

<sup>2</sup> Includes all counties with fewer than 3 operations.

<sup>3</sup> Included in Other counties.

**Christmas trees: Number of operations and acres, by county and Michigan Department of Agriculture region<sup>1</sup>**

| County and MDA region       | Number of operations |               | Acres        |              | County and MDA region       | Number of operations |               | Acres        |              |
|-----------------------------|----------------------|---------------|--------------|--------------|-----------------------------|----------------------|---------------|--------------|--------------|
|                             | 1997                 | 2000          | 1997         | 2000         |                             | 1997                 | 2000          | 1997         | 2000         |
|                             | <i>Number</i>        | <i>Number</i> | <i>Acres</i> | <i>Acres</i> |                             | <i>Number</i>        | <i>Number</i> | <i>Acres</i> | <i>Acres</i> |
| Chippewa                    | 6                    | 4             | 270          | 170          | Sanilac                     | 8                    | 6             | 360          | 360          |
| Delta                       | 17                   | 15            | 800          | 820          | Tuscola                     | 12                   | 9             | 600          | 260          |
| Dickinson                   | 14                   | 9             | 500          | 240          | Other counties <sup>1</sup> | 12                   | 8             | 260          | 260          |
| Luce                        | 5                    | 3             | 160          | 110          | <b>Region 4</b>             | 120                  | 100           | 3,800        | 2,700        |
| Marquette                   | 3                    | 4             | 130          | 100          | Allegan                     | 21                   | 29            | 2,900        | 2,500        |
| Menominee                   | 31                   | 36            | 1,600        | 1,800        | Berrien                     | 19                   | 14            | 300          | 170          |
| Other counties <sup>1</sup> | 9                    | 9             | 740          | 760          | Calhoun                     | 10                   | 13            | 290          | 220          |
| <b>Region 1</b>             | 85                   | 80            | 4,200        | 4,000        | Cass                        | 6                    | 4             | 160          | 100          |
| Alcona                      | 8                    | 5             | 360          | 280          | Kalamazoo                   | 10                   | 9             | 280          | 210          |
| Alpena                      | 8                    | 8             | 350          | 200          | Van Buren                   | 16                   | 17            | 700          | 750          |
| Antrim                      | 16                   | 17            | 2,000        | 1,200        | Other counties <sup>1</sup> | 13                   | 4             | 270          | 100          |
| Benzie                      | 12                   | 12            | 630          | 600          | <b>Region 5</b>             | 95                   | 90            | 4,900        | 4,050        |
| Cheboygan                   | 21                   | 18            | 1,100        | 1,000        | Clinton                     | 12                   | 8             | 280          | 160          |
| Emmet                       | 9                    | 6             | 180          | 130          | Eaton                       | 14                   | 15            | 240          | 270          |
| Grand Traverse              | 18                   | 16            | 1,550        | 1,100        | Hillsdale                   | 8                    | 6             | 270          | 250          |
| Kalkaska                    | 35                   | 27            | 5,100        | 3,300        | Ingham                      | 13                   | 13            | 280          | 310          |
| Leelanau                    | 17                   | 13            | 520          | 370          | Jackson                     | 18                   | 19            | 500          | 370          |
| Manistee                    | 24                   | 27            | 2,700        | 2,600        | Livingston                  | 15                   | 13            | 310          | 290          |
| Missaukee                   | 53                   | 40            | 7,500        | 6,500        | Shiawassee                  | 5                    | 3             | 130          | 50           |
| Otsego                      | 9                    | 5             | 220          | 60           | Washtenaw                   | 10                   | 10            | 350          | 250          |
| Presque Isle                | 5                    | 7             | 210          | 210          | Other counties <sup>1</sup> | 5                    | 5             | 90           | 50           |
| Wexford                     | 47                   | 41            | 8,500        | 7,300        | <b>Region 6</b>             | 100                  | 92            | 2,450        | 2,000        |
| Other counties <sup>1</sup> | 3                    | 3             | 80           | 50           | Monroe                      | 6                    | 5             | 140          | 130          |
| <b>Region 2</b>             | 285                  | 245           | 31,000       | 24,900       | Oakland                     | 16                   | 15            | 310          | 270          |
| Ionia                       | 11                   | 6             | 350          | 200          | St Clair                    | 9                    | 9             | 380          | 410          |
| Kent                        | 11                   | 8             | 800          | 570          | Other counties <sup>1</sup> | 14                   | 9             | 320          | 140          |
| Lake                        | 7                    | 6             | 700          | 530          | <b>Region 7</b>             | 45                   | 38            | 1,150        | 950          |
| Mason                       | 13                   | 15            | 800          | 850          | <b>State total</b>          | 970                  | 830           | 69,000       | 54,000       |
| Mecosta                     | 20                   | 6             | 1,400        | 650          |                             |                      |               |              |              |
| Montcalm                    | 24                   | 25            | 4,500        | 3,400        |                             |                      |               |              |              |
| Muskegon                    | 13                   | 12            | 450          | 350          |                             |                      |               |              |              |
| Newaygo                     | 24                   | 14            | 2,300        | 1,400        |                             |                      |               |              |              |
| Oceana                      | 74                   | 55            | 6,000        | 4,500        |                             |                      |               |              |              |
| Osceola                     | 18                   | 22            | 3,100        | 2,500        |                             |                      |               |              |              |
| Ottawa                      | 25                   | 16            | 1,100        | 450          |                             |                      |               |              |              |
| <b>Region 3</b>             | 240                  | 185           | 21,500       | 15,400       |                             |                      |               |              |              |
| Arenac                      | 4                    | 7             | 230          | 160          |                             |                      |               |              |              |
| Clare                       | 7                    | 3             | 300          | 120          |                             |                      |               |              |              |
| Genesee                     | 11                   | 12            | 180          | 200          |                             |                      |               |              |              |
| Gladwin                     | 4                    | 4             | 130          | 130          |                             |                      |               |              |              |
| Iosco                       | 8                    | 7             | 200          | 110          |                             |                      |               |              |              |
| Isabella                    | 23                   | 14            | 750          | 400          |                             |                      |               |              |              |
| Lapeer                      | 12                   | 11            | 250          | 200          |                             |                      |               |              |              |
| Midland                     | 4                    | 5             | 160          | 150          |                             |                      |               |              |              |
| Saginaw                     | 15                   | 14            | 380          | 350          |                             |                      |               |              |              |

<sup>1</sup> Source: 1999-2000 Rotational Nursery & Christmas Tree Survey.